

**From:** "Semborski, Chuck" <Charles.Semborski@PacifiCorp.com>  
**To:** "Jim Smith" <jimdsmith@utah.gov>  
**Date:** 4/8/2005 1:55:42 PM  
**Subject:** RE: Energy West Hydrologic Program

Jim,

Corrected file.

Chuck Semborski  
Manager of Geology/Permitting  
Energy West Mining Company  
P.O. Box 310  
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-----Original Message-----

From: Jim Smith [mailto:jimdsmith@utah.gov]  
Sent: Friday, April 08, 2005 12:35 PM  
To: Semborski, Chuck  
Subject: Re: Energy West Hydrologic Program

Chuck,

The Adobe file with Table 1 that you attached shows only flow is monitored at ICF during baseflow. Your e-mail, plus section II.A.1.c of Appendix A indicate all field parameters are monitored during baseflow, not just flow.

JIM

>>> "Semborski, Chuck" <Charles.Semborski@PacifiCorp.com> 04/08/05  
10:58 AM >>>  
Jim,

<<EW Sampling Program Page 14.doc>> <<HYDTAB April Redline 2005.pdf>>

Thanks for approving the Volume 9 amendment. As I promised, I would revise the Hydrologic Monitoring Program description and schedule to clarify monitoring related to Indian Creek Flume. Please review the attachments.

Monitoring of Indian Creek ...

...

ICF: Indian Creek Flume - monitored during base flow (October or November), field parameters only (also monitored by Genwal Mining Company)

...

Chuck Semborski  
Manager of Geology/Permitting

Energy West Mining Company  
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Hydrologic Monitoring Program

**PACIFICORP**  
**ENERGY WEST MINING COMPANY**  
 HYDROLOGIC MONITORING PROGRAM  
 DEER CREEK/COTTONWOOD-WILBERG/DESBEE-DOVE/TRAIL MOUNTAIN MINES

SURFACE HYDROLOGY - RECLAMATION SAMPLING (Table 1)

Drainage System	Drainage	Location	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Cottonwood Creek Drainage System*	Cottonwood Canyon Creek	SW1			Operational			Operational			Operational			Operational
		SW2			Operational			Operational			Operational			Operational
		CCC01			Field			Field			Field			Field
		SW3			Operational			Operational			Operational			Operational
	Grimes Wash	GWR01			Operational			Operational			Operational			Operational
		GWR02			Operational			Operational			Operational			Operational
		GWR03			Operational			Operational			Operational			Operational
	Jones Valley Indian Creek	ICA	Based Flow Monitoring Only (October or November)									Operational		
		ICF	Based Flow Monitoring Only (October or November)									Field		
		ICD	Based Flow Monitoring Only (October or November)									Operational		
		ICB	Based Flow Monitoring Only (October or November)									Operational		
	Straight Canyon	T-19			Operational			Operational			Operational			Operational
Huntington Drainage System*	Deer Creek	DCR01			Operational			Operational			Operational			Operational
		DCR04			Operational			Operational			Operational			Operational
		DCR06			Operational			Operational			Operational			Operational
	Huntington Creek	HCC01			Operational**			Operational**			Operational**			Operational**
		HCC02			Operational**			Operational**			Operational**			Operational**
		HCC04			Operational**			Operational**			Operational**			Operational**
			** Flow in Huntington Creek is measured @ HCC01 by Utah Power, and will be reported in the Annual Hydrologic Report											
	Meetinghouse Canyon	MCH01			Operational			Operational			Operational			Operational
	Rills Canyon	RCF1***			Operational			Operational			Operational			Operational
		RCLF1			Field			Field			Field			Field
		RCLF2			Field			Field			Field			Field
		RCF2			Field			Field			Field			Field
		RCF3			Operational			Operational			Operational			Operational
		RCW4			Operational			Operational			Operational			Operational
			*** Baseline flow will be measured adjacent to EM-163											
	Mill Fork Canyon	MFA01	Flow	Flow	Operational	Flow	Flow	Operational	Flow	Flow	Operational	Flow	Flow	Operational
		MF002	Flow	Flow	Operational	Flow	Flow	Operational	Flow	Flow	Operational	Flow	Flow	Operational
		MF003	Flow	Flow	Operational	Flow	Flow	Operational	Flow	Flow	Operational	Flow	Flow	Operational

\* Analyzed for Baseline Parameters During the Fifth (5) and Ninth (9) Year After Final Reclamation

HYDTAB April 2005.xls

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**DEER CREEK/COTTONWOOD-WILBERG/DES-BEE-DOVE/TRAIL MOUNTAIN MINES**

*In no case will baseline sampling time frame exceed 5 years converting from operational to reclamation monitoring.*

**GROUNDWATER HYDROLOGY - RECLAMATION SAMPLING (Table 2)**

<u>Groundwater Type</u>		<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>
<b>Springs</b>	<b>East Mountain (Includes Mill Fork Springs)</b>							Operational			Operational		
	<i>Spring monitoring will be conducted until permit area reduction approval or unless otherwise approved by the Division.</i>												
	<b>East Mountain-Rilda Canyon</b>	Flow	Flow	Operational	Flow	Flow	Operational	Flow	Flow	Operational	Flow	Flow	Operational
	<i>Rilda Spring monitoring will be conducted until permit area reduction approval or unless otherwise approved by the Division.</i>												
	<b>Trail Mountain</b>							Operational			Operational		
<b>In-Mine</b>	<b>Oliphant</b>	T-18		Operational			Operational			Operational			Operational
	<i>Spring monitoring will be conducted until permit area reduction approval or unless otherwise approved by the Division.</i>												
	<b>Deer Creek/Cottonwood/Trail Mtn. samples will be collected and analyzed quarterly until the mine is sealed or the sites become inaccessible</b>												
	<i>Oliphant Mine discharge monitoring will be conducted until permit area reduction approval or unless otherwise approved by the Division.</i>												
<b>Wells</b>	<b>Cottonwood Waste Rock Well</b>			Operational			Operational			Operational			Operational
	<i>Cottonwood Waste Rock Well will be sealed during Phase I reclamation. One water sample will be collected and analyzed per location quarterly until well sealing.</i>												
	<b>Cottonwood Canyon Wells*</b>	Level	Level	Level	Level	Level	Level	Level	Level	Level	Level	Level	Level
	<i>(Includes Straight Canyon TM-3)</i>												
	<i>Cottonwood Canyon well monitoring will be conducted until permit area reduction approval or unless otherwise approved by the Division.</i>												
<b>Trail Mountain (TM-1B)</b>	<b>Deer Creek Waste Rock Well</b>			Operational			Operational			Operational			Operational
	<i>Deer Creek Waste Rock Well will be sealed during Phase I reclamation. One water sample will be collected and analyzed per location quarterly until well sealing.</i>												
	<b>Rilda Canyon Wells*</b>	Level	Level	Level	Level	Level	Level	Level	Level	Level	Level	Level	Level
	<i>Rilda Canyon well monitoring will be conducted until permit area reduction approval or unless otherwise approved by the Division.</i>												
	<b>Trail Mountain (TM-1B)</b>	Level	Level	Operational	Level	Level	Operational	Level	Level	Operational	Level	Level	Operational

*\* Monitored monthly subject of access*

**UPDES SAMPLING - (Table 1)**

		<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>
<b>Mine Water Discharge**</b>	<b>Cottonwood</b>												
	<b>TMA</b>	As Needed Bas	As Needed Bas	As Needed Bas	As Needed Bas	As Needed Bas	As Needed Bas	As Needed Bas	As Needed Bas	As Needed Bas	As Needed Bas	As Needed Bas	As Needed Bas
	<b>Miller</b>	As Needed Bas	As Needed Bas	As Needed Bas	As Needed Bas	As Needed Bas	As Needed Bas	As Needed Bas	As Needed Bas	As Needed Bas	As Needed Bas	As Needed Bas	As Needed Bas
	<b>Deer Creek</b>	DCD	As Needed Bas	As Needed Bas	As Needed Bas	As Needed Bas	As Needed Bas	As Needed Bas	As Needed Bas	As Needed Bas	As Needed Bas	As Needed Bas	As Needed Bas
	<b>Trail Mountain</b>	TMD	As Needed Bas	As Needed Bas	As Needed Bas	As Needed Bas	As Needed Bas	As Needed Bas	As Needed Bas	As Needed Bas	As Needed Bas	As Needed Bas	As Needed Bas
<b>** After Portal Sealing PacificCorp Will Monitor Down Dip For Development Of Groundwater Seeps/Springs Until Bond Release</b>													
<b>Sediment Pond Discharge</b>	<b>Cottonwood</b>	2 Outfall	As Needed Bas	As Needed Bas	As Needed Bas	As Needed Bas	As Needed Bas	As Needed Bas	As Needed Bas	As Needed Bas	As Needed Bas	As Needed Bas	As Needed Bas
	<b>Deer Creek</b>	1 Outfall	As Needed Bas	As Needed Bas	As Needed Bas	As Needed Bas	As Needed Bas	As Needed Bas	As Needed Bas	As Needed Bas	As Needed Bas	As Needed Bas	As Needed Bas
	<b>Des-Bee-Dove</b>	1 Outfall	As Needed Bas	As Needed Bas	As Needed Bas	As Needed Bas	As Needed Bas	As Needed Bas	As Needed Bas	As Needed Bas	As Needed Bas	As Needed Bas	As Needed Bas
	<b>Trail Mtn</b>	1 Outfall	As Needed Bas	As Needed Bas	As Needed Bas	As Needed Bas	As Needed Bas	As Needed Bas	As Needed Bas	As Needed Bas	As Needed Bas	As Needed Bas	As Needed Bas

## Hydrology - Monitoring Program

**PACIFICORP**  
**ENERGY WEST MINING COMPANY**  
**HYDROLOGIC MONITORING PROGRAM**

DEER CREEK/COTTONWOOD-WILBERG/DES-BEE-DOVE/TRAIL MOUNTAIN MINES

**SURFACE HYDROLOGY - OPERATIONAL SAMPLING (Table 1)**

<u>Drainage System</u>	<u>Drainage</u>	<u>Location</u>	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>
<b>Cottonwood Creek Drainage System</b>	<b>Cottonwood Canyon Creek</b>	SW1	Flow	Flow	Operational	Flow	Flow	Operational	Flow	Flow	Operational	Flow	Flow	Operational
		SW2	Flow	Flow	Operational	Flow	Flow	Operational	Flow	Flow	Operational	Flow	Flow	Operational
		CC001	Flow	Flow	Field	Flow	Flow	Field	Flow	Flow	Field	Flow	Flow	Field
		SW3	Flow	Flow	Operational	Flow	Flow	Operational	Flow	Flow	Operational	Flow	Flow	Operational
	<b>Grimes Wash</b>	GWR01	Flow	Flow	Operational	Flow	Flow	Operational	Flow	Flow	Operational	Flow	Flow	Operational
		GWR02	Flow	Flow	Operational	Flow	Flow	Operational	Flow	Flow	Operational	Flow	Flow	Operational
		GWR03	Flow	Flow	Operational	Flow	Flow	Operational	Flow	Flow	Operational	Flow	Flow	Operational
	<b>Joos Valley Indian Creek</b>	ICA	Based Flow Monitoring Only (October or November)									Operational		
		ICF	Based Flow Monitoring Only (October or November)									Field		
		ICD	Based Flow Monitoring Only (October or November)									Operational		
		ICB	Based Flow Monitoring Only (October or November)									Operational		
	<b>Straight Canyon</b>	T-19	Flow	Flow	Operational	Flow	Flow	Operational	Flow	Flow	Operational	Flow	Flow	Operational
<b>Huntington Drainage System</b>	<b>Deer Creek</b>	DCR01	Flow	Flow	Operational	Flow	Flow	Operational	Flow	Flow	Operational	Flow	Flow	Operational
		DCR04	Flow	Flow	Operational	Flow	Flow	Operational	Flow	Flow	Operational	Flow	Flow	Operational
		DCR06	Flow	Flow	Operational	Flow	Flow	Operational	Flow	Flow	Operational	Flow	Flow	Operational
	<b>Huntington Creek</b>	HCC01	Flow*	Flow*	Operational*	Flow*	Flow*	Operational*	Flow*	Flow*	Operational*	Flow*	Flow*	Operational*
		HCC02			Operational*			Operational*			Operational*			Operational*
		HCC04			Operational*			Operational*			Operational*			Operational*
	* Flow in Huntington Creek is measured @HCC01 by Utah Power, and will be reported in the Annual Hydrologic Report													
	<b>Meetinghouse Canyon</b>	MCH01	Flow	Flow	Operational	Flow	Flow	Operational	Flow	Flow	Operational	Flow	Flow	Operational
	<b>Rilda Canyon</b>	RCF1*	Flow	Flow	Operational	Flow	Flow	Operational	Flow	Flow	Operational	Flow	Flow	Operational
		RCLF1	Flow	Flow	Field	Flow	Flow	Field	Flow	Flow	Field	Flow	Flow	Field
		RCLF2	Flow	Flow	Field	Flow	Flow	Field	Flow	Flow	Field	Flow	Flow	Field
		RCF2	Flow	Flow	Field	Flow	Flow	Field	Flow	Flow	Field	Flow	Flow	Field
		RCF3	Flow	Flow	Operational	Flow	Flow	Operational	Flow	Flow	Operational	Flow	Flow	Operational
	<b>Mill Fork Canyon</b>	RCW4	Flow	Flow	Operational	Flow	Flow	Operational	Flow	Flow	Operational	Flow	Flow	Operational
		* Baseline flow will be measured adjacent to EM-163												
		MFA01	Flow	Flow	Operational	Flow	Flow	Operational	Flow	Flow	Operational	Flow	Flow	Operational
		MFB02	Flow	Flow	Operational	Flow	Flow	Operational	Flow	Flow	Operational	Flow	Flow	Operational
		MFU03	Flow	Flow	Operational	Flow	Flow	Operational	Flow	Flow	Operational	Flow	Flow	Operational

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DEER CREEK/COTTONWOOD-WILBERG/DES-BEE-DOVE/TRAIL MOUNTAIN MINES

GROUNDWATER HYDROLOGY - OPERATIONAL SAMPLING (Table 2)

Groundwater Type			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Springs	East Mountain	(Includes Mill Fork Springs)							Operational	Flow * * Recharge on Springs	Flow *	Operational		
	East Mountain-Rilda Canyon		Flow	Flow	Operational	Flow	Flow	Operational	Flow	Flow	Operational	Flow	Flow	Operational
	Trail Mountain				Operational			Operational	Operational	Flow	Operational	Operational		Operational
In-Mine	Cottonwood	T-18			Operational			Operational			Operational			Operational
	Deer Creek				Operational			Operational			Operational			Operational
	Trail Mountain				Operational			Operational			Operational			Operational
Wells	Cottonwood Waste Rock Well				Operational			Operational			Operational			Operational
	Cottonwood Canyon Wells		Level	Level	Level	Level	Level	Level	Level	Level	Level	Level	Level	Level
	(includes Straight Canyon TM-3)													
	Deer Creek Waste Rock Well				Operational			Operational			Operational			Operational
	Deer Creek In-Mine Well				Level			Level			Level			Level
	Rilda Canyon Wells		Level	Level	Level	Level	Level	Level	Level	Level	Level	Level	Level	Level
	Trail Mountain (TM-1B)		Level	Level	Operational	Level	Level	Operational	Level	Level	Operational	Level	Level	Operational

UPDESSAMPLING - (Table 1)

			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Mine Water Discharge	Cottonwood	TMA	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational
		Miller	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational
	Deer Creek	DCD	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational
	Trail Mountain	TMD	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational
Sediment Pond Discharge	Cottonwood	2 Outfalls	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational
	Deer Creek	1 Outfall	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational
	Des-Bee-Dove	1 Outfall	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational
	Trail Mtn	1 Outfall	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational

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DEER CREEK/COTTONWOOD-WILBERG/DESBEE-DOVE/TRAIL MOUNTAIN MINES

SURFACE HYDROLOGY - BASELINE SAMPLING (Table 1) - 2006

Drainage System	Drainage	Location	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Cottonwood Creek Drainage System	Cottonwood Canyon Creek	SW1	Flow	Flow	Baseline	Flow	Flow	Baseline	Flow	Flow	Baseline	Flow	Flow	Baseline
		SW2	Flow	Flow	Baseline	Flow	Flow	Baseline	Flow	Flow	Baseline	Flow	Flow	Baseline
		CCC01	Flow	Flow	Field	Flow	Flow	Field	Flow	Flow	Field	Flow	Flow	Field
	SW3	SW3	Flow	Flow	Baseline	Flow	Flow	Baseline	Flow	Flow	Baseline	Flow	Flow	Baseline
	Grimes Wash	GWR01	Flow	Flow	Baseline	Flow	Flow	Baseline	Flow	Flow	Baseline	Flow	Flow	Baseline
		GWR02	Flow	Flow	Baseline	Flow	Flow	Baseline	Flow	Flow	Baseline	Flow	Flow	Baseline
		GWR03	Flow	Flow	Baseline	Flow	Flow	Baseline	Flow	Flow	Baseline	Flow	Flow	Baseline
	Joos Valley Indian Creek	ICA	Based Flow Monitoring Only (October or November)									Baseline		
		ICF	Based Flow Monitoring Only (October or November)									Field		
		ICD	Based Flow Monitoring Only (October or November)									Baseline		
		ICB	Based Flow Monitoring Only (October or November)									Baseline		
Huntington Drainage System	Straight Canyon	T-19	Flow	Flow	Baseline	Flow	Flow	Baseline	Flow	Flow	Baseline	Flow	Flow	Baseline
	Deer Creek	DCR01	Flow	Flow	Baseline	Flow	Flow	Baseline	Flow	Flow	Baseline	Flow	Flow	Baseline
		DCR04	Flow	Flow	Baseline	Flow	Flow	Baseline	Flow	Flow	Baseline	Flow	Flow	Baseline
	DCR06	DCR06	Flow	Flow	Baseline	Flow	Flow	Baseline	Flow	Flow	Baseline	Flow	Flow	Baseline
	Huntington Creek	HCC01	Flow*	Flow*	Baseline*	Flow*	Flow*	Baseline*	Flow*	Flow*	Baseline*	Flow*	Flow*	Baseline*
		HCC02			Baseline*			Baseline*			Baseline*			Baseline*
		HCC04			Baseline*			Baseline*			Baseline*			Baseline*
	* Flow in Huntington Creek is measured @HCC01 by Utah Power, and will be reported in the Annual Hydrologic Report													
	Meetinghouse Canyon	MCH01	Flow	Flow	Baseline	Flow	Flow	Baseline	Flow	Flow	Baseline	Flow	Flow	Baseline
	Rills Canyon	RCF1*	Flow	Flow	Baseline	Flow	Flow	Baseline	Flow	Flow	Baseline	Flow	Flow	Baseline
		RCLF1	Flow	Flow	Field	Flow	Flow	Field	Flow	Flow	Field	Flow	Flow	Field
		RCLF2	Flow	Flow	Field	Flow	Flow	Field	Flow	Flow	Field	Flow	Flow	Field
		RCF2	Flow	Flow	Field	Flow	Flow	Field	Flow	Flow	Field	Flow	Flow	Field
		RCF3	Flow	Flow	Baseline	Flow	Flow	Baseline	Flow	Flow	Baseline	Flow	Flow	Baseline
	Mill Fork Canyon	RCW4	Flow	Flow	Baseline	Flow	Flow	Baseline	Flow	Flow	Baseline	Flow	Flow	Baseline
	MFA01	MFA01	Flow	Flow	Baseline	Flow	Flow	Baseline	Flow	Flow	Baseline	Flow	Flow	Baseline
		MFB02	Flow	Flow	Baseline	Flow	Flow	Baseline	Flow	Flow	Baseline	Flow	Flow	Baseline
		MFU03	Flow	Flow	Baseline	Flow	Flow	Baseline	Flow	Flow	Baseline	Flow	Flow	Baseline

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GROUNDWATER HYDROLOGY - BASELINE SAMPLING (Table 2) - 2005

Groundwater Type		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Springs	East Mountain (Includes Mill Fork Springs)							Baseline	Flow*	Flow*	Baseline		
	East Mountain-Riids Canyon	Flow	Flow	Baseline	Flow	Flow	Baseline	Flow	Flow	Baseline	Flow	Flow	Baseline
	Trail Mountain Oliphant	T-18		Baseline			Baseline	Baseline	Flow	Baseline	Baseline		Baseline
In-Mine	Cottonwood			Baseline			Baseline			Baseline			Baseline
	Deer Creek			Baseline			Baseline			Baseline			Baseline
	Trail Mountain			Baseline			Baseline			Baseline			Baseline
Wells	Cottonwood Waste Rock Well			Baseline			Baseline			Baseline			Baseline
	Cottonwood Canyon Wells (Includes Straight Canyon TM-3)	Level	Level	Level	Level	Level	Level	Level		Level	Level	Level	Level
	Deer Creek Waste Rock Well			Baseline			Baseline			Baseline			Baseline
	Deer Creek In-Mine Well			Level			Level			Level			Level
	Riids Canyon Wells	Level	Level	Level	Level	Level	Level	Level	Level	Level	Level	Level	Level
	Trail Mountain (TM-1B)	Level	Level	Baseline	Level	Level	Baseline	Level	Level	Baseline	Level	Level	Baseline

UPDES SAMPLING - (Table 1)

		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Mine Water Discharge	Cottonwood	TMA	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational
	Miller		Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational
	Deer Creek	DCD	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational
Sediment Pond Discharge	Trail Mountain	TMD	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational
	Cottonwood	3 Outfalls	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational
	Deer Creek	1 Outfall	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational
	Des-Bee-Dove Trail Mtn	1 Outfall	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational	Operational